

# REPLACEMENT SHEET

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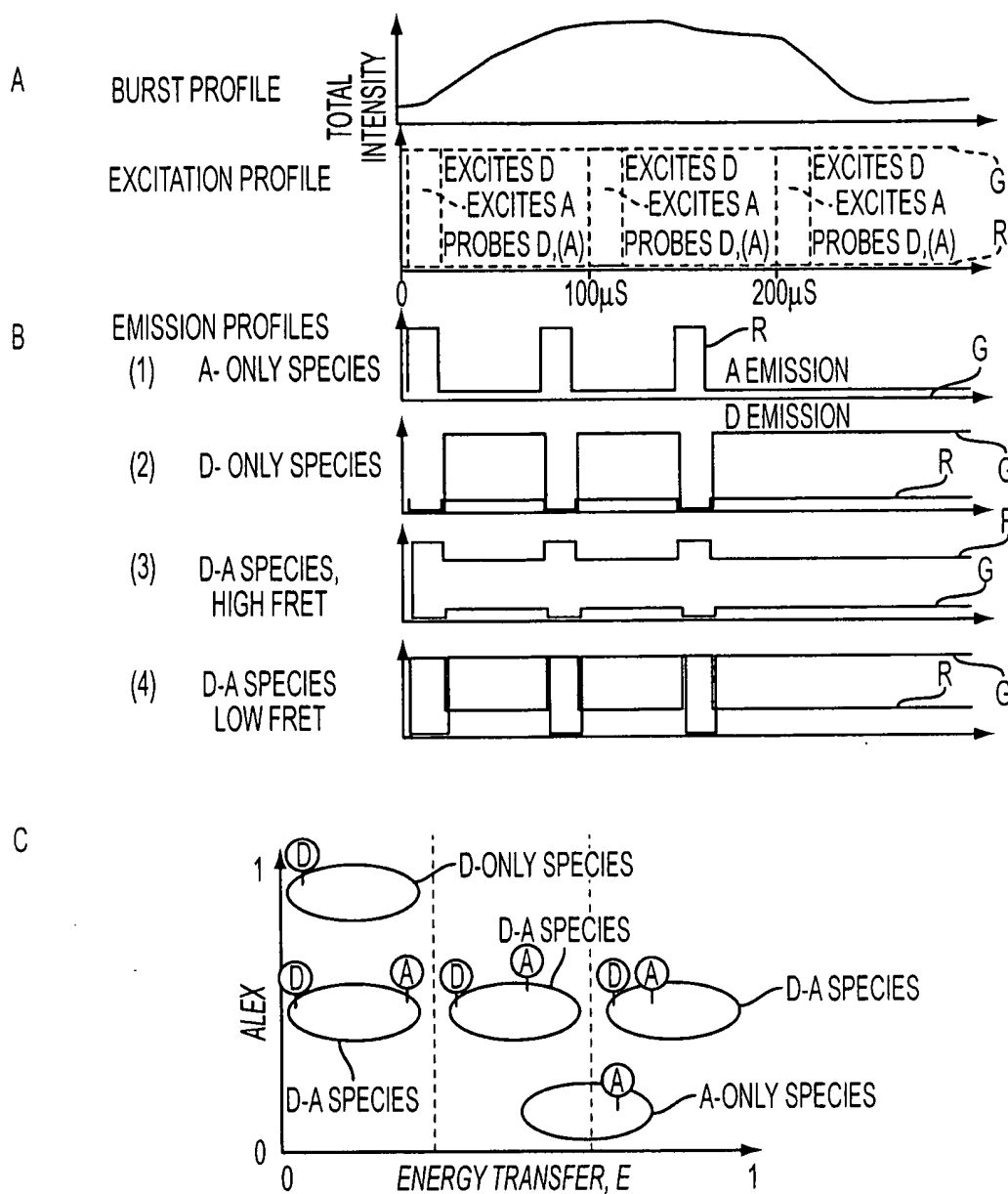


FIG. 1

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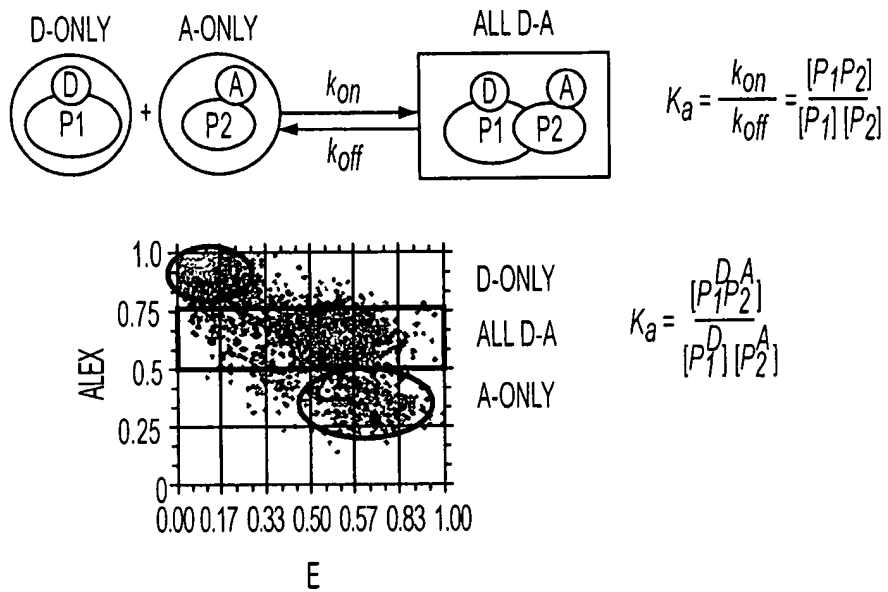


FIG. 2

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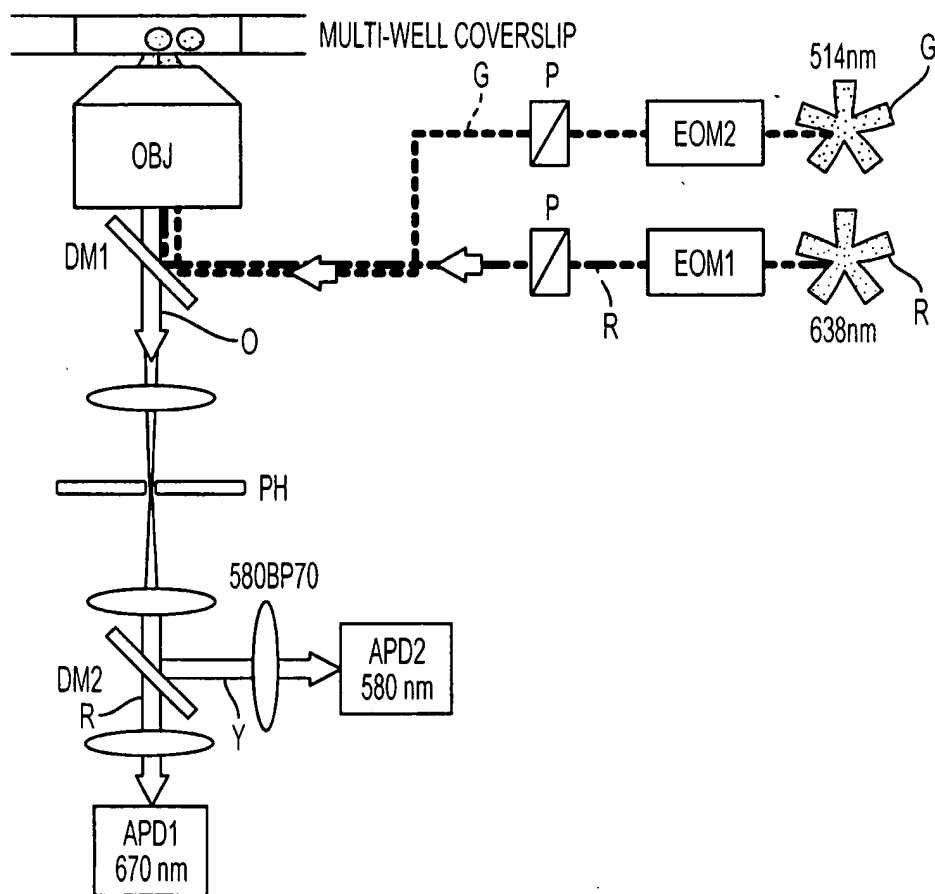


FIG. 3

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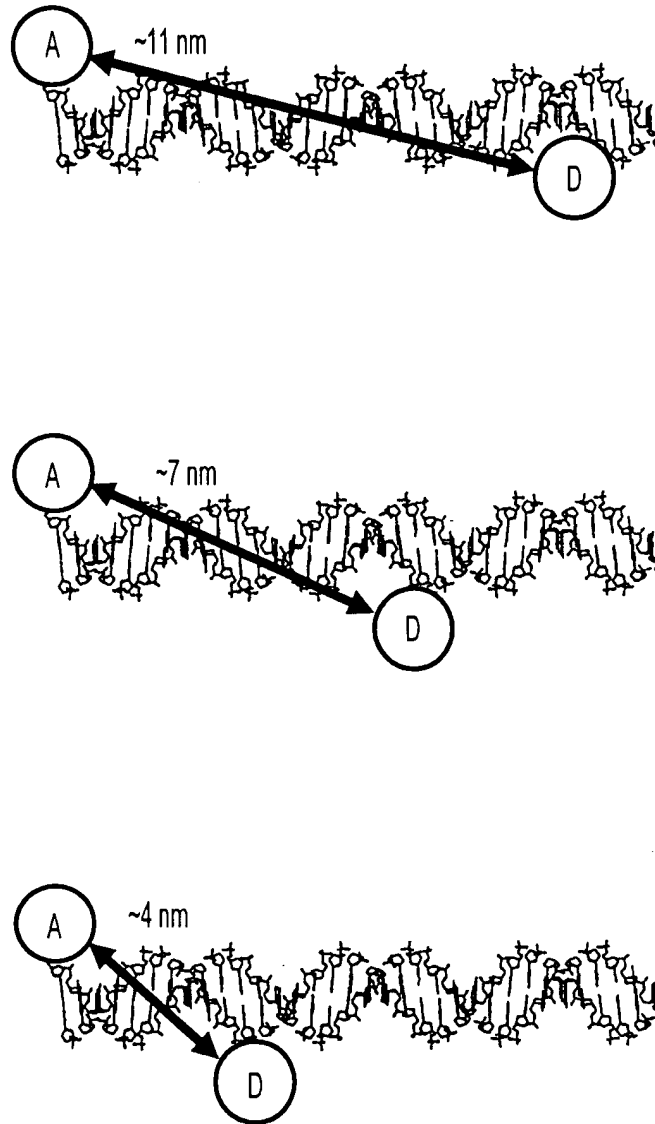


FIG. 4A

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App No.: 10/561,448  
Docket No.: 58086-226455  
Inventor: Shimon Weiss  
Title: MODULATED EXCITATION  
FLUORESCENCE ANALYSIS  
REPLACEMENT SHEET

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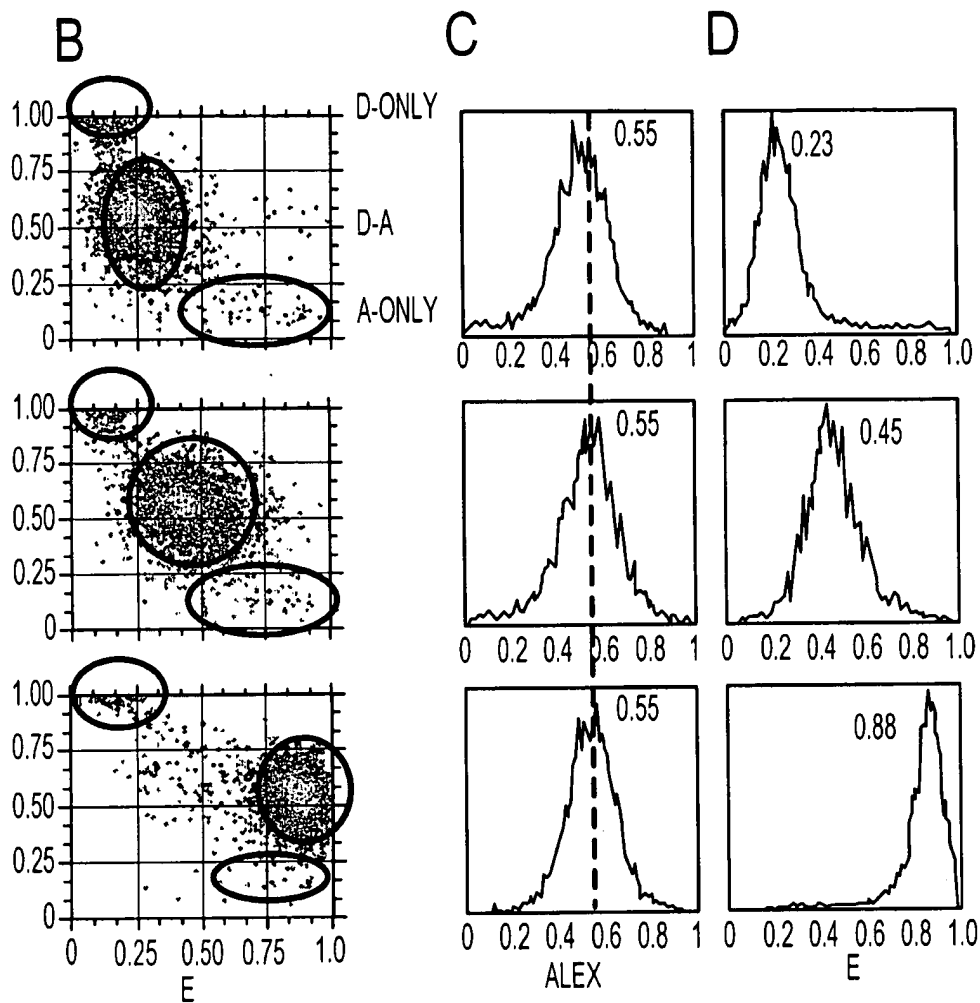


FIG. 4

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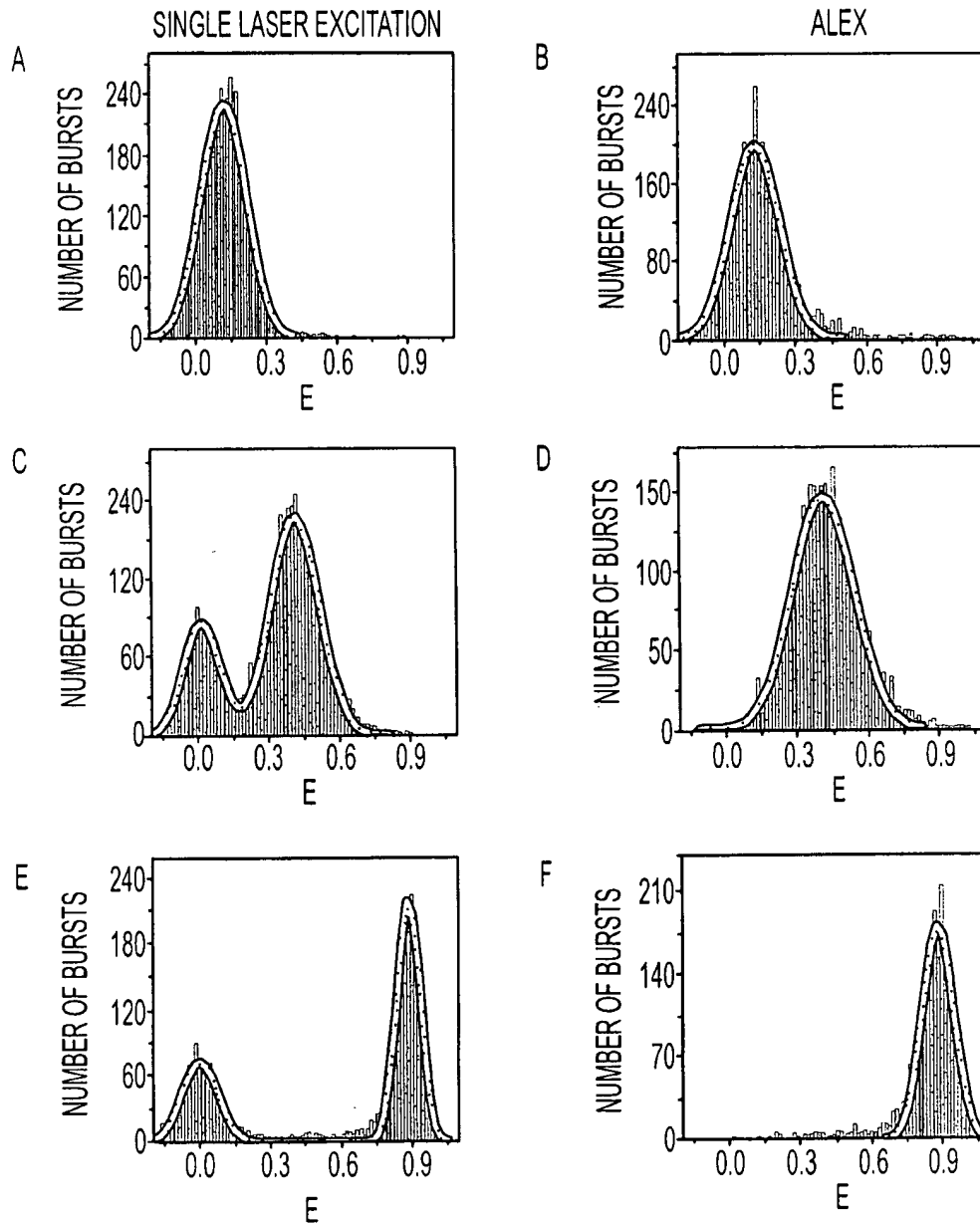


FIG. 5

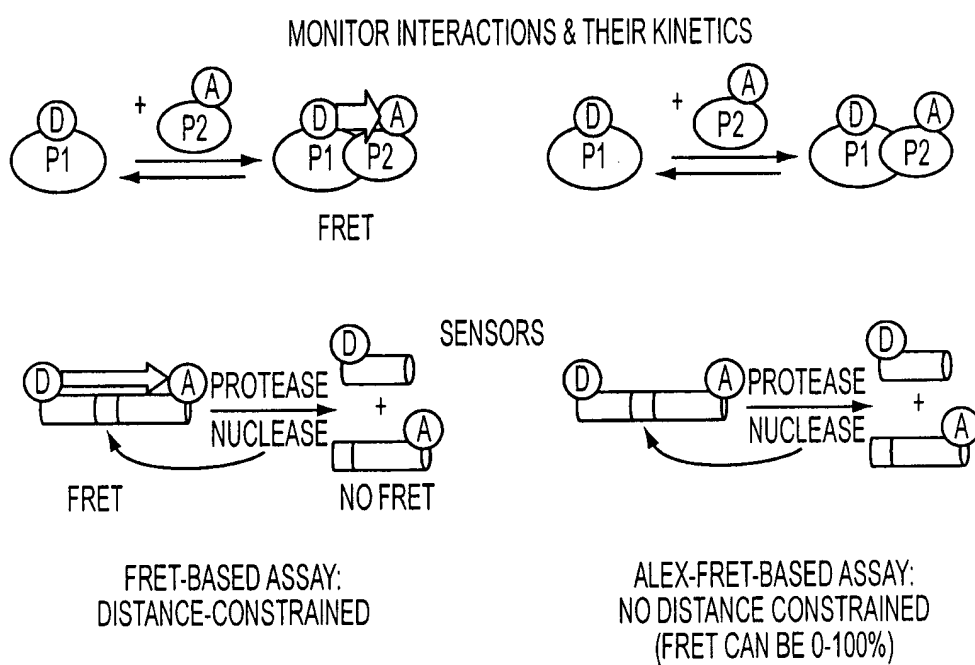


FIG. 6

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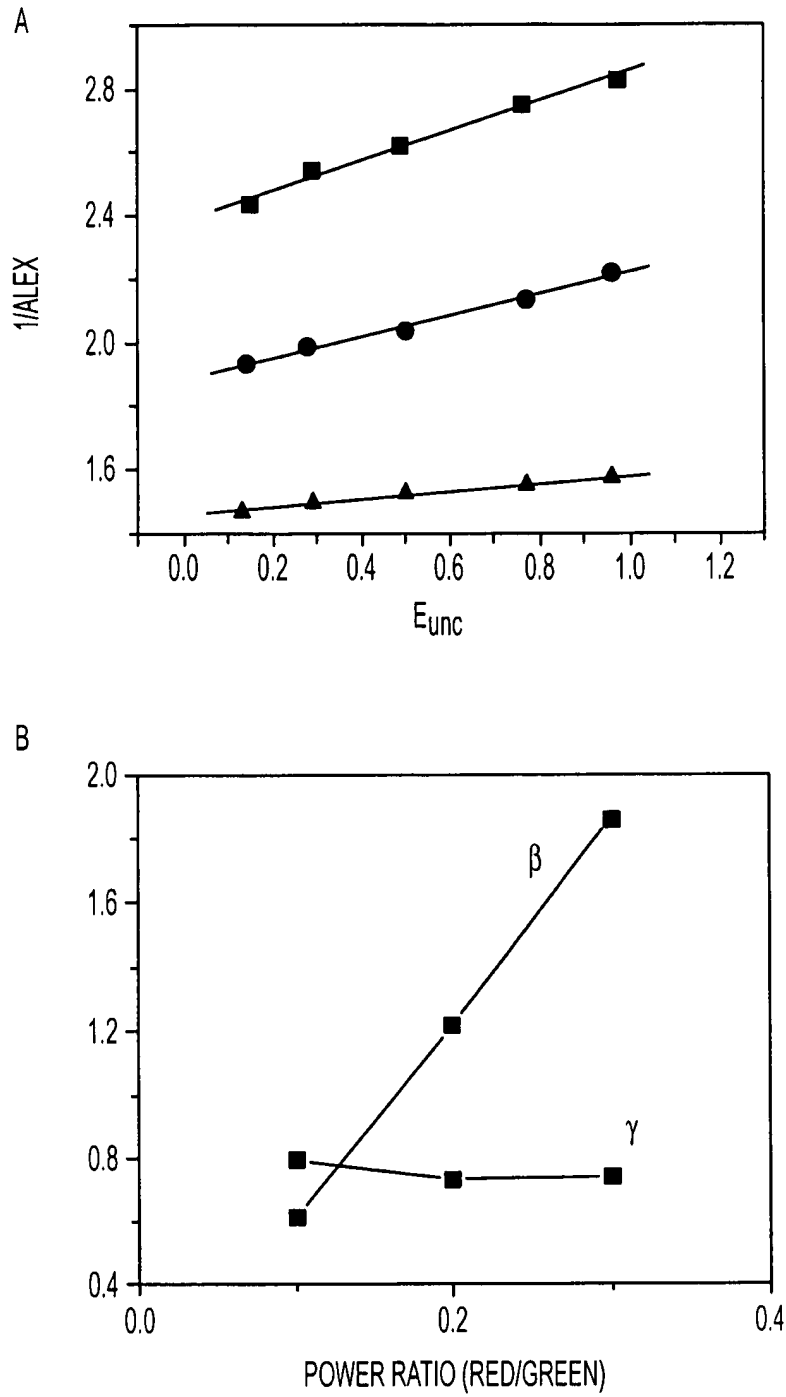


FIG. 7



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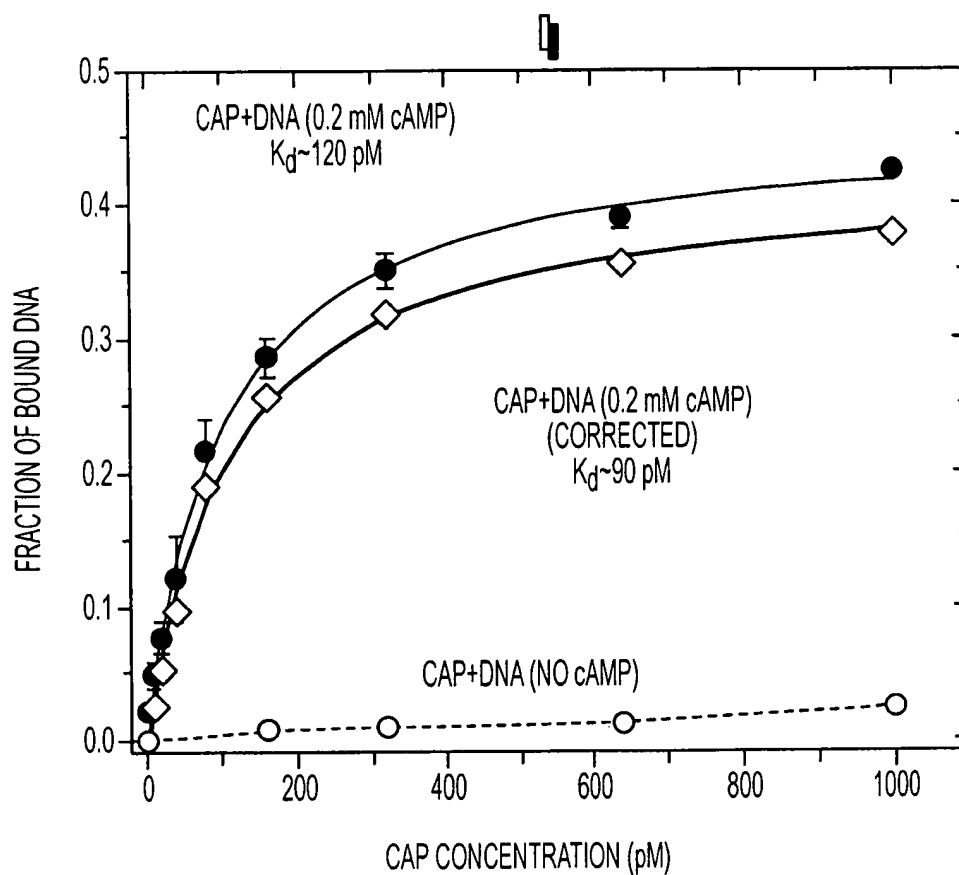


FIG. 8

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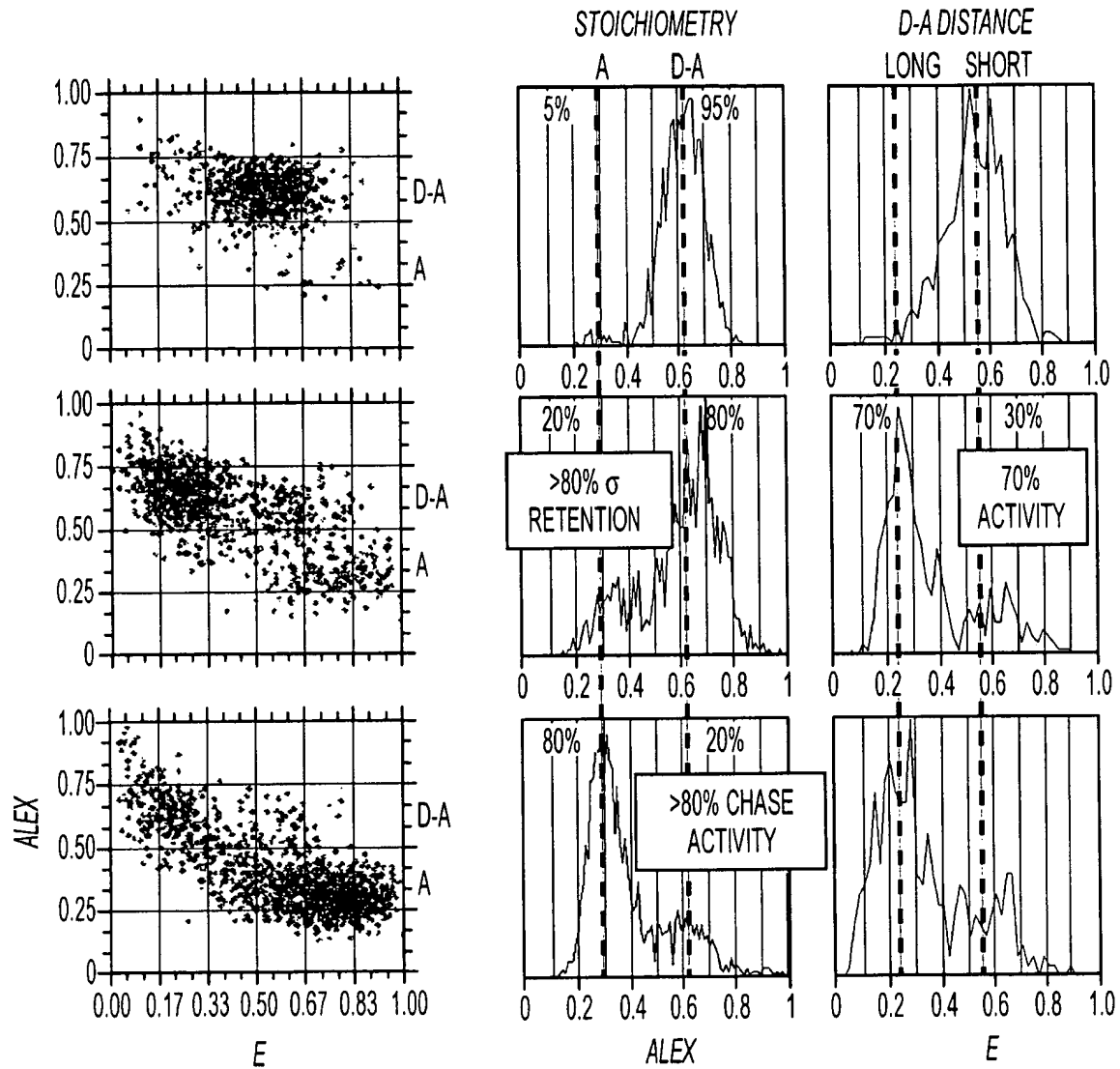


FIG. 9

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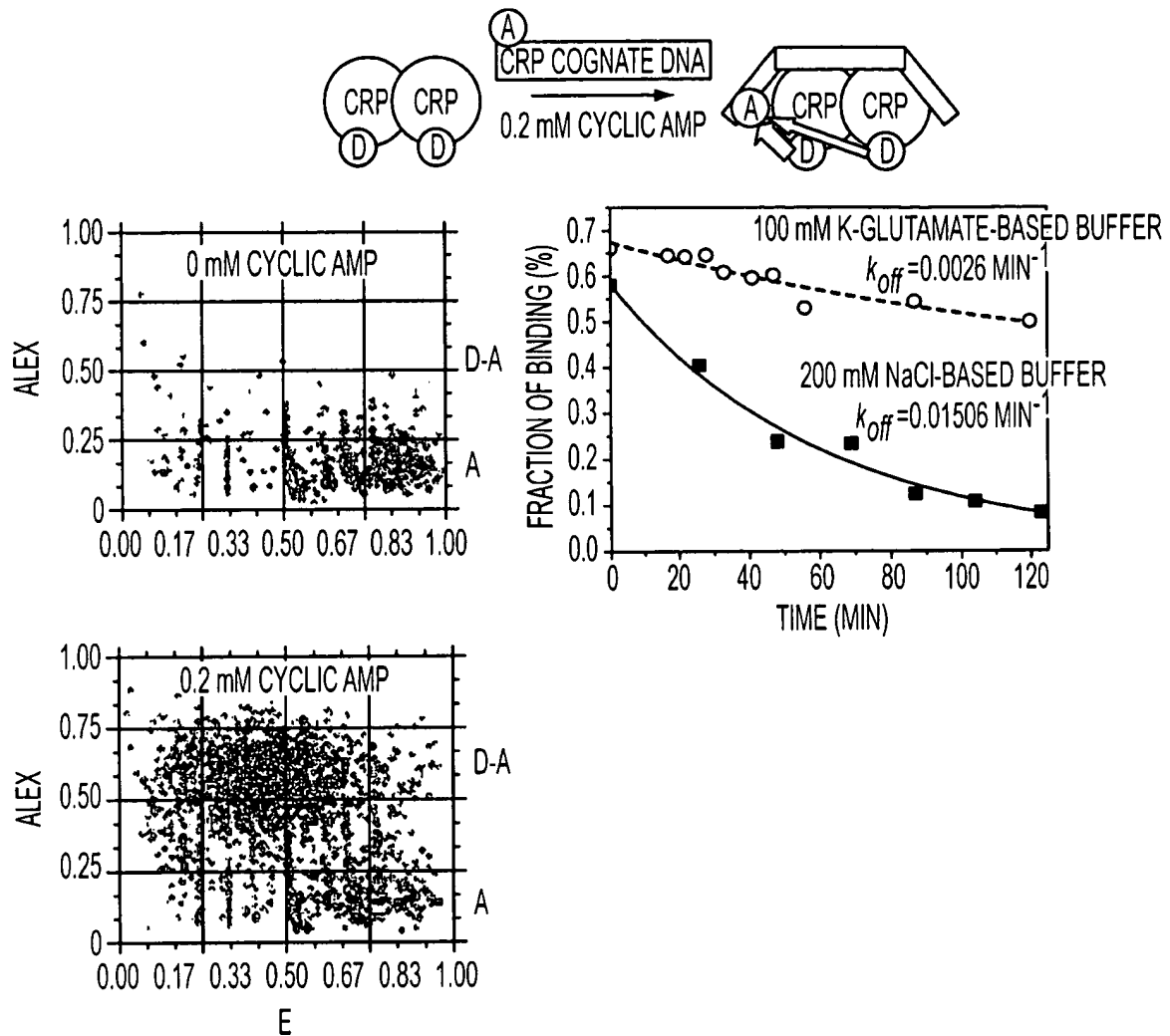


FIG. 10

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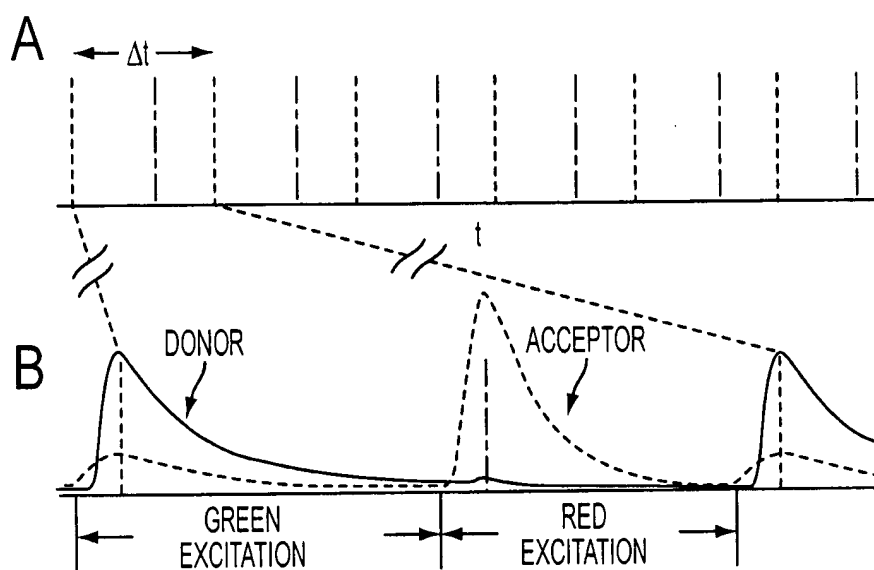


FIG. 11

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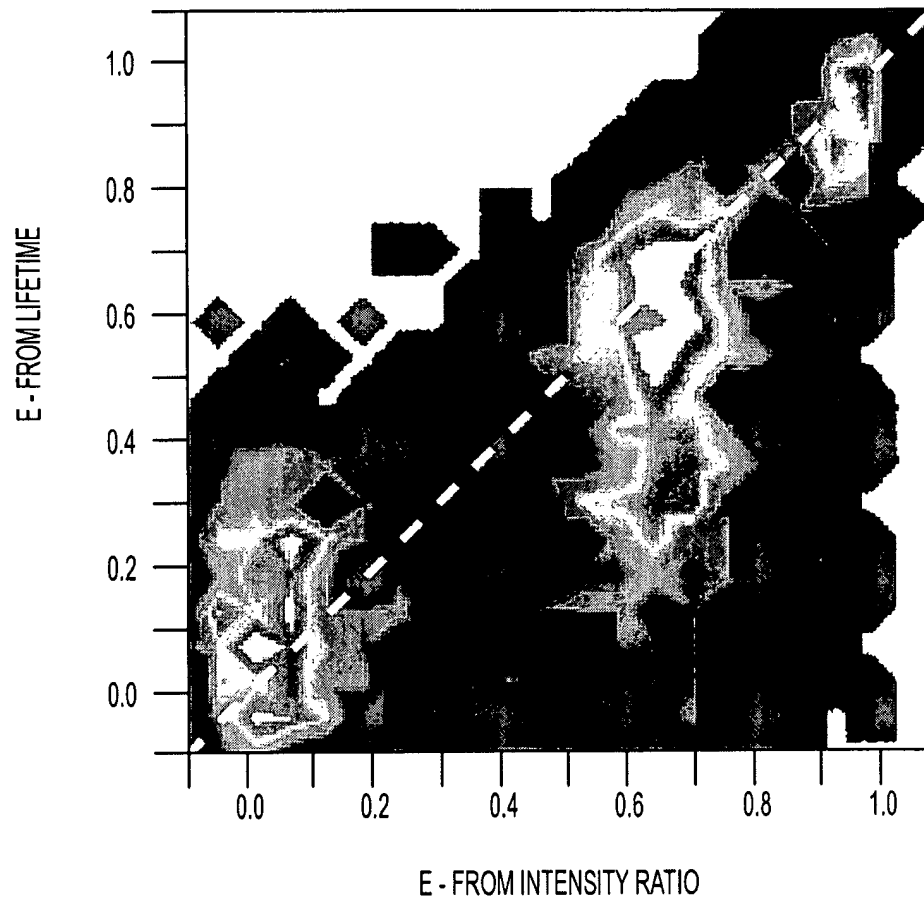


FIG. 12

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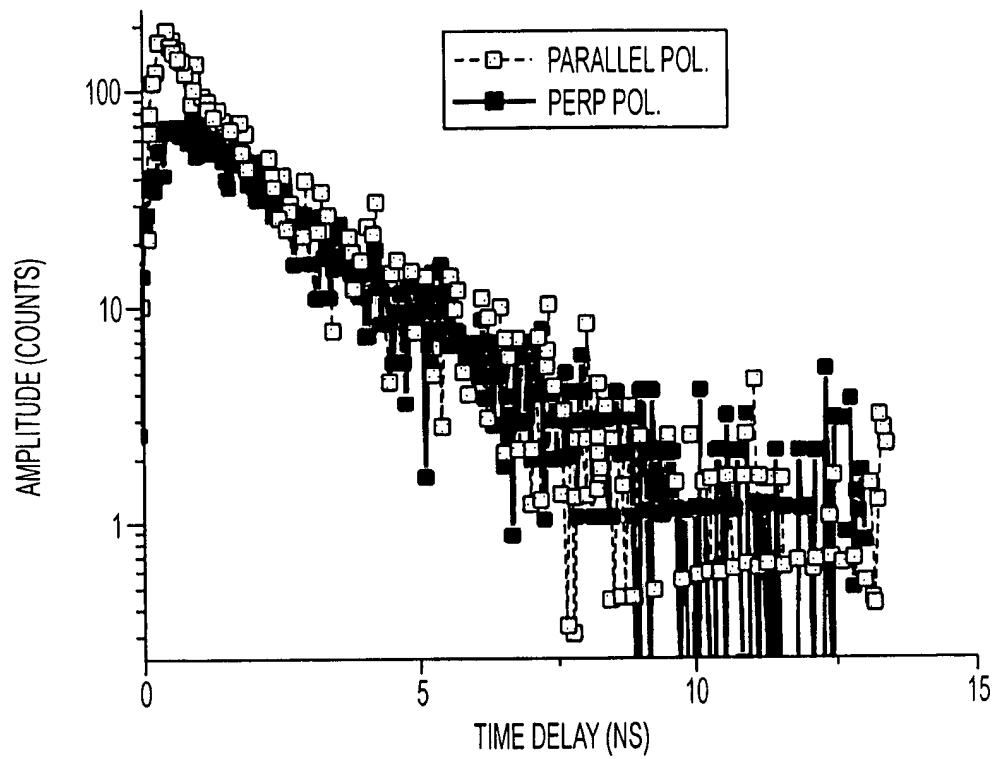


FIG. 13

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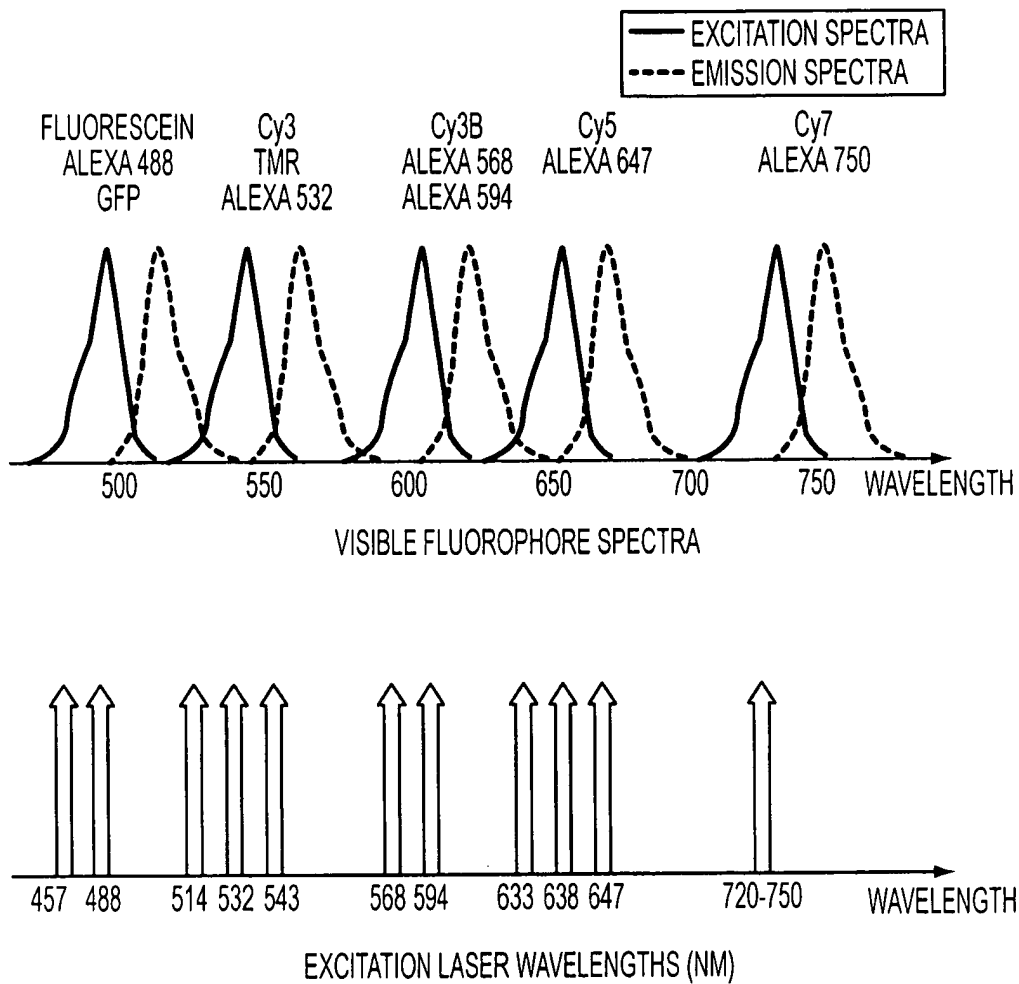
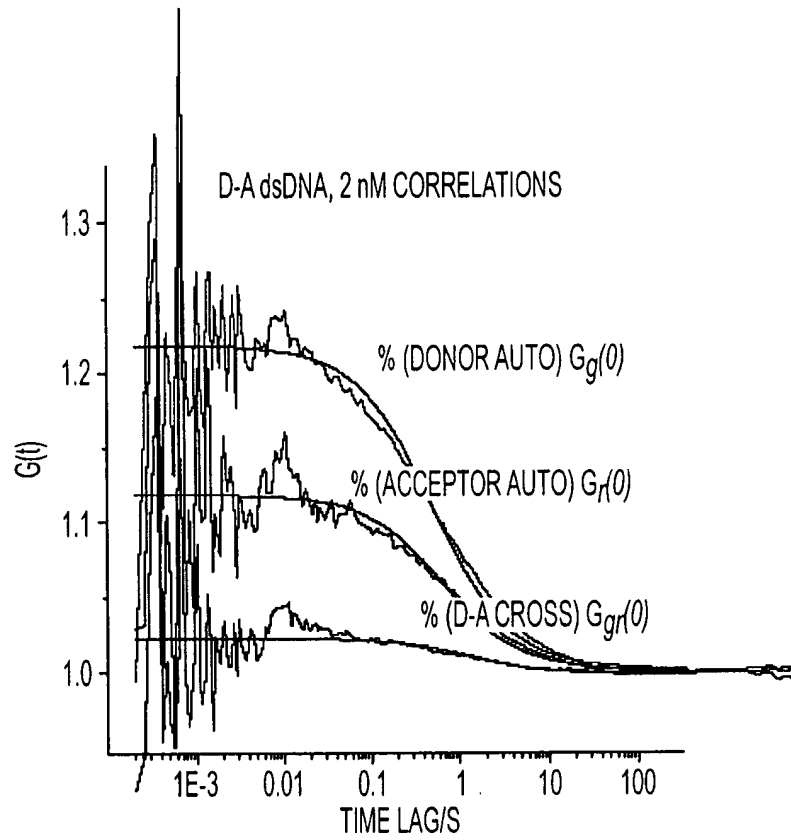


FIG. 14

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S) NORMALIZED SUBPOPULATION CONCENTRATIONS  $Y_D + Y_{DA} + Y_{DA} = 1$

$$G_g(0) = \frac{1}{N_{TOTAL}} - \frac{Y_D + Y_{DA}(1-E)^2}{[Y_D + Y_{DA}(1-E)^2]}$$

$$G_r(0) = \frac{1}{N_{TOTAL}} - \frac{Y_{DA}E^2k^2 + Y_A}{(Y_{DA}Ek + Y_A)^2}$$

$$G_{gr}(0) = \frac{1}{N_{TOTAL}} - \frac{Y_{DA}(1-E)Ek}{[Y_D + Y_{DA}(1-E)][Y_{DA} + Ek + Y_A]}$$

FIG. 15